

### **Amendments to and listing of the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A polymer composition containing a polymer and a flame retardant, wherein the flame retardant comprises a polymer having a flame-retardant moiety in a side chain thereof.
2. (Original) A polymer composition according to claim 1, wherein the flame-retardant moiety is a compound that, when it is heated, exerts at least one type of reaction selected from a group consisting of endothermic decomposition reaction, radical-compound-producing reaction, inert-gas-producing reaction and incombustibles-producing reaction.
3. (Currently Amended) A polymer composition according to claim 1 [[or 2]], wherein the thermal decomposition temperature of the polymer having a flame-retardant moiety in a side chain thereof is higher than 100°C and lower than the thermal decomposition temperature of the polymer.
4. (Currently Amended) A polymer composition according to claim 1 ~~any one of claims 1 to 3~~, wherein the thermal decomposition temperature of the polymer having a flame-retardant moiety in a side chain thereof is in a range that is higher than 300°C and lower than 550°C.
5. (Currently Amended) A polymer composition according to claim 1 ~~any one of claims 1 to 4~~, wherein the melting point or the softening temperature of the polymer having a flame-retardant moiety in a side chain thereof is equal to or lower than the softening temperature of the polymer.
6. (Currently Amended) A polymer composition according to claim 1 ~~any one of claims 1 to 5~~, wherein the polymer having a flame-retardant moiety in a side chain thereof is contained at a ratio of five (5) part by weight or more and 50 part by weight or less to 100 part by weight of the polymer.

7. (Currently Amended) A polymer composition according to claim 1 ~~any one of claims 1 to 6~~, wherein the polymer having a flame-retardant moiety in a side chain thereof has a heterocyclic compound in which nitrogen is the heteroatom.

8. (Original) A polymer composition according to claim 7, wherein the heterocyclic compound contains at least one kind of compound selected from a group consisting of hydantoin, dimethylhydantoin, triazine, diaminotriazine, acetguanamine, aminotriazole, aminopyridine, isocyanuric acid, imidazole, methylimidazole, triallylcyanulate, triallylisocyanulate, pyrazine, melamine, nucleic acid base, nucleotide and nucleoside.

9. (Currently Amended) A polymer composition according to claim 1 ~~any one of claims 1 to 8~~, wherein the polymer having a flame-retardant moiety in a side chain thereof is an addition polymer.

10. (Original) A polymer composition according to claim 9, wherein the polymerizing groups in the addition polymer contain at least one kind selected from a group consisting of vinyl, allyl, acrylic and methacrylic groups.

11. (Currently Amended) A polymer composition according to claim 1 ~~any one of claims 1 to 10~~, wherein the polymer contains a biodegradable polymer.

12. (Currently Amended) A polymer composition according to claim 1 ~~any one of claims 1 to 11~~, wherein the polymer is produced from materials originated from plants.

13. (Original) A polymer composition according to claim 12, wherein the polymer is a polylactic acid-based polymer.

14. (Currently Amended) A polymer composition according to claim 1 ~~any one of claims 1 to 10~~, wherein the polymer contains polystyrene.

15. (Currently Amended) A polymer composition according to claim 1 ~~any one of claims 1 to 10~~, wherein the polymer contains unsaturated polyester.

16. (Currently Amended) A polymer composition according to claim 1 ~~any one of claims 1 to 15~~, wherein the polymer composition has thermoplasticity and can be injection-molded.

17. (Currently Amended) A molded product made of polymer composition according to claim 1 ~~any one of claims 1 to 16~~.

18. (Original) A molded product according to claim 17, wherein the molded product contains the flame-retardant moiety in the vicinity of its surface at a density higher than the density inside it.

19. (Currently Amended) A housing for electric appliances made of the polymer composition according to claim 1 ~~any one of claims 1 to 16~~.

20. (Original) A method for manufacturing a polymer composition having a flame retardancy, comprising the steps of:

preparing a polymer, and a polymerizing compound containing a flame-retardant moiety;  
and

producing a polymer having the flame-retardant moiety in a side chain thereof by heating and kneading the high-molecule material and the polymerizing compound.

21. (Original) A method for manufacturing a polymer composition according to claim 20, wherein the flame-retardant moiety is a compound that, when it is heated, exerts at least one type of reaction selected from the reaction type group consisting of endothermic decomposition reaction, radical compound-producing reaction, inert gas-producing reaction and incombustibles-producing reaction.

22. (Original) A method for manufacturing a polymer composition according to claim 21, wherein the polymerizing compound contains a heterocyclic compound in which nitrogen is the heteroatom.

23. (Currently Amended) A method for manufacturing a polymer composition according to claim 20 ~~any one of claims 20 to 22~~, wherein the high-molecule material contains a biodegradable polymer.

24. (Currently Amended) A method for manufacturing a polymer composition according to claim 20 ~~any one of claims 20 to 22~~, wherein the polymer contains polystyrene.

25. (Original) A method for manufacturing a polymer composition according to claims 24, wherein the polymer is rubber-mixed polystyrene and the polymerizing compound is vinyldiaminotriazine.